

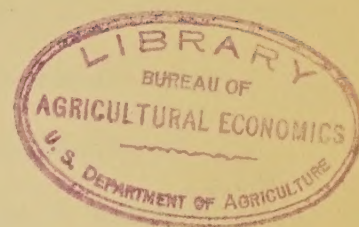
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APR 21 1932

RESEARCH PROJECTS IN HOME ECONOMICS
at the
AGRICULTURAL EXPERIMENT STATIONS
and
LAND GRANT COLLEGES AND UNIVERSITIES
1931-1932



Compiled by

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This list of research projects in home economics includes (1) projects receiving Federal support as compiled from the programs of work for 1931-32 submitted by the directors of the State agricultural experiment stations to the Office of Experiment Stations, together with later projects approved by the office through November 1, 1931, and (2) projects receiving State or other support as compiled from lists received from the heads of home economics departments at the land-grant institutions. Unless otherwise stated, the projects are being conducted in the home economics departments of the land-grant colleges and universities with which the experiment stations are connected or in home economics research departments within the stations. No attempt has been made to list all research projects having a bearing upon home economics which are conducted in other departments, although in a few instances such projects have been included.

In the projects receiving Federal support, cooperation with other departments within the station is designated by the name of the department and participation in the National Cooperative Projects as follows:

- N. C. P. 3--The vitamin content of food in relation to human nutrition.
- N. C. P. 4--Rural home management studies.
 - I. Food consumption and expenditures of farm families.
 - II. Present use of time by farm home makers.
 - III. Efficiency studies of the household plant.
 - IV. Standards of living and expenditures of farm families.
- N. C. P. 6--Factors which influence the quality and palatability of meat.

In the case of joint projects between two or more departments, the financial support given is only the appropriation to the home economics department except as indicated in brackets. Information concerning State support is incomplete.

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Ala.	A study of the calcium and phosphorus content of various vegetable foods grown in Alabama. 3/24/30	E. R. Bishop		Purnell	\$2,400
"	The use of the Allison apparatus for the quantitative analyses of plant ash. 9/25/31	E. R. Bishop		"	2,000
Ariz.	The effect of sunlight in the curing process upon the vitamin A and D content of alfalfa hay. 6/23/28	M.C. Smith & E. Lantz	Agronomy	"	1,150
"	The relation of nutrition to "mottled enamel" endemic in certain Arizona communities. 7/10/31	M. C. Smith E. Lantz H. V. Smith & G. Hartley		"	4,800
"	The biological value of the hegari proteins and the supplemental value of certain protein concentrates. 7/10/30	M. C. Smith & E. Lantz		"	3,050
Ark.	The effect of vitamin B deficiency on the carbohydrate and nitrogen metabolism of nursing young. 5/23/28	M. E. Smith & B. Sure	Agr. Chem.	"	3,400 [100]
"	The effect of avitaminosis on lipid metabolism.	B. Sure & M.E. Smith	Agr. Chem.	"	
Calif.	The effect of method of drying on the vitamin content of fruits.				
	The vitamins A, C, B and G of Thompson seedless grapes, fresh, sun-dried, sulfured and sun-dried, evaporated and sulfured, evaporated.	A. F. Morgan & P.F. Nichols	N.C.P. 3	" State	1,600 400
	The vitamin A activity of purified carotene and of its equivalents in fresh and dried apricots.	A.F. Morgan E.C. Madsen		"	?
	The effect of acid and basic diets upon response to parathyroid extract in dogs.	F. Gillum		"	?

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	The vitamins A and D content of imported and of California grown dates.	A.F.Morgan & F. Gillum		State	?
	The vitamin C content of frozen orange juice and of orange juice products.	A.F. Morgan & C. Langston		"	?
	A study of the collagen content of raw and water-cooked beef.	A.F.Morgan & A. Dorman		"	?
	The effect of Ca and P of the diet on response to parathyroid extract in rats.	A.F. Morgan & J. G. Field		"	?
	The effect of partial vitamin C deficiency on teeth and gums	A. Field		"	?
	The effect of sterol content of diet upon sterol content of blood in normal women.	R. Okey & D. Stewart		"	?
	The effect of diet upon anemia of pregnancy.	R. Okey & J. Field		"	?
Colo.	Baking of flour mixtures at high altitudes. Part II. Physico-chemical factors. 10/4/26	I.M.K. Allison		Purnell	3,000
Conn. (Storrs)	Factors that determine standards of living in farm homes. A.--Factors and conditions affecting the amount and use of family income in the Eastern Highland. 6/24/27 B.--An economic analysis of the food consumed by a selected group of families in the Eastern Highland. 6/24/30	E.V.W. Clapp E.V.W. Clapp & A. Kinsey	N.C.P. 4, IV	" "	4,000 2,000
Fla.	Determination of whether chlorophyll, chlorophyll alpha and beta, and the petroleum-ether extracts of the yellow pigments of alfalfa can be used as a source of vitamin A in animal nutrition. 1/25/26 Revised 5/5/27	O.D. Abbott	N.C.P. 3	State	4,400 200

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Fla. Fla.	A study of some of the constituents of citrus fruits, loquats, roselle and guava: pectins, oils, and glucosides. 2/17/26 Revised 7/2/29	L. W. Gaddum		Purnell State	4,500 200
"	The relation of growth to phosphorus, calcium, and lipin metabolism as influenced by the thymus. 5/6/29	C. F. Ahmann		Purnell	4,600
Ga.	Studies in nutritional anemia. 7/30/30	L. Ascham		"	2,360
	The vitamin A and G content of frozen milk. 2/19/31	L. Ascham	N.C.P. 3	"	2,360
	The standard of living in an industrial center as compared with that in a rural community. 2/20/31	L. Ascham & E. Jones	N.C.P. 4, IV	"	2,360
	The vitamin content of widely used Georgia foods: The vitamin B and G content of turnip greens and collards and the vitamin C content of the sweet potato. 7/3/25	C. Newton		"	2,920
Hawaii	Vitamin determinations in Hawaiian foods and feeds (oranges, tomatoes, Chinese cabbage, avocado oil). 5/31/29	C. D. Miller & R.C. Robbins	N.C.P. 3	Hatch	2,400
"	Chemical and biological studies of the proteins of the pigeon pea (<u>Cajanus indicus</u>). 5/27/30	C.D. Miller		Adams	1,520
"	Chemical and biological studies of the Opihi (<u>Helcioniscus exeratus</u> and <u>H. argentatus</u>). 5/26/31	C.D. Miller R.C. Robbins		Adams	1,520
"	The avocado: Chemical studies with special reference to the factors inhibiting its successful commercial preservation. 5/31/29	E. Harbold ^{1/}		Hatch	1,520

^{1/} Division of chemical investigations.

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Hawaii	Avocado: Chemical studies of the bitterness which develops on heating for canning. 5/27/30	L.N.Bilgerl/		Hatch	700
	Avocado: Study of the sterol content and vitamin value of the avocado oil. 5/27/30	L.N. Bilgerl/		"	700
Idaho	A study of the methods of vegetable storage now in use. 11/26/27	E. Woods		Purnell	200
"	A study of the conditions determining successful storage of potatoes, carrots, cauliflower, and cabbage. 11/26/27	E.Woods & C.C.Vincent	Horticulture	"	450
"	The effect of storage upon the vitamin C content of the Russet Burbank potatoes of Idaho. 11/26/27	E. Woods	N.C.P. 3	"	2,150
"	2/ A study of the vitamin G content of the Idaho Russet Burbank potato.	E. Woods	N.C.P. 3	"	750
"	2/ Effect of storage in household refrigeration upon vitamin C in a green vegetable such as lettuce.	E. Woods	N.C.P. 3	"	750
Ill.	The vitamin B and G content of rice. 12/19/25 Revised 10/26/29	C.R.Meyer & F. Roy	N.C.P. 3	"	533
"	The vitamin B and the vitamin G content of corn. 12/19/25 Revised 10/26/29	C.R. Meyer	N.C.P. 3		833
"	Whole corn and some of its milling products as a source of the vitamin B and G requirements of lactation. 12/19/25 Revised 10/26/29	M. Plant	N.C.P. 3		100

- 1/ Division of chemical investigations.
2/ Proposed.

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Ill.	The vitamin B and the vitamin G requirements for lactation. 10/26/29	C.R.Meyer & F. Roy		Purnell	2,133
"	Home accounts for the family on the farm and in the small town. 4/7/28	R.A.Wardall & R.C.Freeman		"	1,800
"	A study of wheat flours milled in Illinois in relation to their use in baking. 1/3/27	S.Woodruff		"	1,270
"	The effect of modified diet and controlled exercise on body weight and physical fitness in overweight college women. 7/3/30	H.T.Barto & S.C.Munger		"	300
"	Physical properties of systems containing flour, fat, and water. 7/8/31	S.Woodruff		"	280
"	Characteristics of starches of wheat and of other sources. 7/8/31	S.Woodruff		"	275
"	New project to be submitted.	J.Outhouse		"	1,300
Ind.	A study of ovens used for domestic cooking purposes. 6/20/29	G.Redfield	N.C.P.4,III	"	2,500
"	A study of efficient kitchen arrangement. 5/23/30	G.Redfield	N.C.P.4,III	"	3,315
"	A study of the use of the oven, the waterless cooker the water-bath and pressure cooker for processing fruits and vegetables in home canning.	R.Jordan		State	1,615
"	Loss of calcium from vegetables as affected by the addition of salt (sodium chloride) during the cooking process.	R.Jordan		"	1,500

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
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Iowa	The value of meats for growth, reproduction, lactation, and hemoglobin formation in albino rats. 10/24/31	P.M.Nelson, P.Swanson & (M.Gunson)		Purnell State	2,200 250
"	The influence of experimental technic during the preliminary depletion period in vitamin A determinations on the response of the test animal to supplementary feeding of the vitamin. 10/24/31	P.M.Nelson, P.Swanson & (G.Timson)	Mathematics	Purnell State	500 100
"	A study of the conditions influencing the production of uniform experimental animals in the stock colony. 10/24/31	P.M.Nelson, P.Swanson & (G.Timson)	Mathematics	Purnell State	500 100
"	The vitamin A, B, C, and G content of canned tomatoes. 10/24/31	P.M.Nelson, P.Swanson, E.S.Haber, & (B.Hammer)	Veg.Crops	Purnell State "	1,300 300 [115]
"	The vitamin A content of sweetpotatoes of the Prolific variety grown with varying known fertilizer treatments. 10/24/31	P.Swanson, P.M.Nelson, E.S.Haber & (G.Timson)	Veg.Crops	Purnell State "	1,500 350 [140]
"	The association of vitamin A with plant pigments. 10/24/31	P.Swanson & E.S.Haber	Veg.Crops	Purnell State	[50] [90]
"	The design and use of equipment for the sterilization of fruit juices. 10/24/31	L.J.Peet & L. Sater		Purnell	725
"	The design and use of suitable equipment for cooking foods with heat generated by the resistance to the passage through the food of an alternating current. 10/24/31	L.J.Peet & L. Sater		Purnell	725
"	The determination of regenerated cellulose in the presence of cellulose acetate, cotton, silk, or wool. 10/24/31	R. Edgar & (E.Fisher)	Chemistry	Purnell	690

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				Source	Amount
Iowa	The possible association of vitamin A with nutritional conditions in plants. 10/24/31	E.S.Haber, P.M.Nelson, & P.Swanson	Veg.Crops	State Purnell "	[325] 100 200
"	Variations in the ash con- tent of the tissues of rats grown on normal rations and on one defective in inorgan- ic constituents.	P.Swanson		State	?
"	Certain physiological ef- fects induced in the rat by a ration defective in inor- ganic constituents in which edestin serves as the diet- ary protein.	P.Swanson		"	?
"	The chemical analysis of low-salt diets, containing edestin and casein, respec- tively, as sources of dietary protein.	P.Swanson		"	?
"	The vitamin content of winter butters manufactured in Iowa.	P.Swanson		"	?
"	The vitamin A content of carrots grown under special conditions.	P.Swanson		"	?
"	Waffle iron tests; operating temperatures, power consump- tion, heat distribution, cooking time.	L.J.Peet & V.Brashear		Sears Roebuck Co. State	?
"	The effect of certain house- hold stains and cleaning a- gents on different materials used for table tops.	L.J.Peet & D.Davis			
Kans.	Utilization of calcium and phosphorus from fresh, dried and evaporated milk. 7/3/25	M.Kramer & R.McCammon		Purnell	1,233

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Kans.	Vitamin content of foods relating to human nutrition. 1. Determination of the vitamin content of foods including butter, eggs, cherries, green leafy vegetables, and cereal products. 2. Investigation of effects of varying the amount of vitamin in the diet.	M.Kramer & R.McCammon	N.C.P. 3	Purnell	3,166
"	The quality and palatability of meat, particularly rib roasts from steers fed in connection with the study of grass fat cattle.	M. Kramer	N.C.P. 6 Animal Husbandry	Purnell	900
"	The composition and nutritive value of cooked meat as compared with the raw product.	M.S.Pittman & M.Kramer			
"	The utilization by human subjects of nitrogen and phosphorus of various cuts of meat.	M.S.Pittman			
"	Protective value of certain clothing fabrics against (1) heat and cold and (2) sunburn. 7/3/25 (3) Against heat loss when air is in motion.	M.Justin, K. Hess, & E. Bruner.	Physics	"	3,166
"	1/ A study of factors affecting the quality of fabrics.				
"	A study of electric and other types of stoves commonly used in farm household cooking processes. 11/27/28	M.F.Taylor	N.C.P.4,III	Purnell	2,250
"	A study of floor coverings			State	
"	A study of the housing conditions of some of the fitter families of Kansas.			"	

1/ Proposed.

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Ky.	The metabolism of obesity. 10/20/25	S.Erikson		Purnell	500
"	The vitamins of mustard greens. 10/21/26	S.Erikson	N.C.P.IV	"	100
"	A study of the cause for variation in the cooking quality of white potatoes. 11/5/26	S.Erikson		"	200
"	Studies of the antirachitic potency of the sun's rays at the latitude of Kentucky, including antirachitic po- tency of eggs, as affected by exposure of hens to sun- light and ultra-violet light at different seasons of the year, comparative antirachi- tic value of brown shell and white shell eggs, effect of storage on antirachitic value and on beating and baking quality of whites of eggs. 7/1/27	J.H.Martin, S.E.Erikson, R. Boyden, & W.M. Insko	Poultry Husbandry N.C.P. 3	"	3,800
"	Use of time by rural home- makers for household tasks from standpoint of equipment used and method employed and relationship of income and total expenditure for house- equipment. 7/22/29	S.Erikson	N.C.P. 4, II & IV. Farm Economics	"	100
"	An economic and social study of an eastern Kentucky moun- tain county (Knott County). 7/23/30	W.D.Nicholls & S.Erikson	Farm Economics N.C.P.4,IV	"	600
Maine	The iron content of edible wild greens of Maine. 5/13/27	P.S.Greene		"	967

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Maine	The economic utilization of electricity in food preparation in Maine rural homes. 1. The selection of electrical cooking equipment and utensils as related to the cooking needs of Maine rural families, to first cost, and to current consumption. 2. To discover the changes and adaptations of typical cooking habits and processes necessary to prepare typical menus with economic consumption of current. 6/5/28 The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) Effect of disease on the culinary properties of potatoes. 8/13/29	L. Smith M.D. Sweetman		"	3,414 2,969
Md.	Factors affecting food consumption habits of farming people in Maryland. 5/25/29	M. Coffin, M. Mount, & V. Kellar	N.C.P. 4, I	"	3,800
Mass.	The comparative values of milk and tomato as supplementary feeding in a rural elementary school. 8/23/29 The value of evaporated milk for school food service. 6/3/30	B.C. Wait & O.E. Merriam B.C. Wait & M. Voorneveld		" Evapor Milk Assoc.	5,230 1,740 4,000
Mich.	The vitamin A, B complex, and D content of some commercially canned vegetables and fruits. 10/9/25	M. Dye & N. Halliday	N.C.P. 3	Purnell	500

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Mich.	The effect of variations in the nutrition of leaf lettuce on its vitamin A content. 10/12/27	J.W.Crist & M. Dye	Horticulture N.C.P. 3	Purnell	500
"	Determination of the food requirements of children. (1) A quantitative study of the food intake of normal preschool children. (2) The protein requirements of the preschool child. (3) The mineral requirements of the preschool child. 11/1/28	M. Dye, M. Bray, & N.Halliday		"	4,500
"	A study of practices and attitudes of farm families relative to insurance. 12/6/30	I.H.Gross	N.C.P.4,IV	"	1,000
"	A study of the B vitamins. 10/30/31	N.Halliday		"	4,000
Minn.	The relation of diet to blood regeneration. Subproject 1. The influence of vitamins on the rate of blood regeneration. 8/7/25	J.M.Leichsen- ring & A. Riester		"	3,775
"	Subproject 2. The distribution of nitrogenous constituents of the blood during blood regeneration. 3/1/28				
"	Quality tests for studying pork cuts. 11/9/25	A. Child		"	1,825
"	Revised 1/6/30				
"	A study of bound and free water in meat. 10/4/28	A. Child			
"	Factors affecting the selection, care, and wearing qualities of textile materials. Subproject 1. A study of fiber quality and physical qualities in relation to cost of staple wool materials. (Wool serges and gabardines). 3/1/28	E.L. Phelps		"	1,300

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Minn.	The effect of ultra-violet radiation on young children.	R.C.Glockler & J.M.Leichsenring	Institute of Child Welfare	State	?
"	Some physiological effects of ultra-violet radiation on normal adults.	H.H.Hunt & J.M.Leichsenring		"	?
"	A study of silk weighting.	M.J. Chinn & E. L. Phelps		"	?
Miss.	Expenditures for clothing of families living in rural areas of Mississippi. 6/8/28	D. Dickins	N.C.P.4,IV	Purnell	2,500
"	Studies in nutritional anemia. I. (a) The effect of feeding green leafy vegetables on nutritional anemia as compared with feeding liver, (b) The separation and isolation of the substances in green leafy vegetables which are effective in the treatment of nutritional anemia. 8/29/29	O.Sheets & A. Sulzby		"	2,500
	II. (a) The effect of feeding sorghum and sugarcane sirups and blackstrap molasses on nutritional anemia, (b) The determination of the substances present in sorghum and sugarcane sirups and blackstrap molasses which are effective in nutritional anemia, (c) The effect of cooking sorghum and sugarcane sirups in iron and copper pans on their iron and copper content. 11/24/30			"	2,500

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Miss.	III. (a) The influence of nitrogen upon the utilization of iron and copper by leaf lettuce and spinach. (b) The relative efficiency of leaf lettuce and spinach grown in different soil concentrations of nitrogen, iron, and copper compounds in the treatment of nutrition anemia in rats.			Purnell	2,500
Mo.	A study of the effect of temperature and time of cooking on quality and palatability of meat. 6/10/26	J.A. Cline, R. Foster, & M.Swanson	N.C.P. 6	"	1,600
"	Influence of methods of handling foods on their vitamin content, and the relation of food to the vitamin deficiency diseases. 7/1/26 Revised 7/29/29	B.Bisbey & S. Cover			
	1. Vitamin A and D content of January eggs from different breeds.			"	800
	2. Effect of fruit acids on rickets.			"	1,100
	3. The vitamin B and G content of the Nancy Hall sweetpotato			"	850
"	Durability of cotton fabrics.	A.E.Ginter, M.Parthlow,& S.Pearlmutter		"	1,000
	1. A study of the durability of white and colored cotton fabrics as affected by wear and by home and commercial laundering. 7/29/29				
Mont.	Food preservation.	J.E.Richardson & H.Mayfield		"	1,205
	1. Vegetables (carrots and rutabagas). 9/6/25				

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Mont.	The vitamin content of vegetables in winter storage. 7/30/26 (Vitamins B ₁ and C in carrots and rutabagas).	J.E.Richardson & H.Mayfield	N.C.P. 3	Purnell	2,210
"	Effect of feeds on grade and quality of lamb. 1/25/27 Subproject.--Influence of barley and oats on the quality and palatability of lamb.	J.E.Richardson & H.Mayfield	N.C.P. 6 Animal husbandry	"	615
"	Selection, care and wearing quality of women's hosiery. 3/9/31	J.E.Richardson		"	1,685
"	Canning of vegetables at high altitude. 1. Green peas. 7/3/31	J.E.Richardson & H.Mayfield		"	1,485
"	A study of the bacterial content of canned peas when processed by different methods and for different periods of time.	M.Evans & J.E.Richardson	Bacteriology	State	?
"	A study of the comparative quality of bread baked in electric, gas, and coal range ovens.	J.E.Richardson & M.J.Haynes		"	?
Nebr.	Routine and seasonal work of the housekeeper. 2/11/26 (Completed)	M.R.Clark	N.C.P.4,II	Purnell	450
"	Cash contribution of farm homemakers to the family income. 2/14/29 (Completed)	M.R.Clark	N.C.P.4,IV	"	1,000
"	Washing machine study. 1/29/29 (Completed)	E.B.Snyder & M.P.Brunig	N.C.P.4,III Agricultural Engineering	"	2,500
"	The relation of draft to performance of kerosene burners on kerosene cook stoves. 1/15/31	E.B.Snyder & J.C.Russel	N.C.P.4,III	"	1,000

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Nebr.	A study of electric cooking stoves. 1/15/31	A.E.Barogar & E.B. Snyder	N.C.P.4,III	Purnell	2,500
"	A study of the family history and standards of living of farm families in selected districts of Nebraska. 1/28/31	M.R. Clark	N.C.P.4,IV	"	1,250
"	A study of the factors affecting the social development of rural preschool children. 7/17/31	M.R.Clark & R.Staples	N.C.P.4,IV	"	1,300
"	Effect of plane of nutrition upon the quality and palatability of lamb carcasses.	A.D.Weber, W.J.Loeffel,& M.Peters	Animal Husbandry	"	?
"	Effect of the weight and degree of fatness of the pork carcass upon the quality and palatability of the meat.	W.J.Loeffel, W.W.Derrick, & M.Peters	Animal Husbandry	"	?
"	A study of the relationship of outdoor play and appetite and sleep.	R.Staples		State	?
N.Mex.	A study of losses incurred in cooking and the factors affecting the palatability of the New Mexico pinto beans; with a later similar study of the Bayo and other varieties of beans. 11/19/28	M.L.Greenwood		Purnell	2,100
	The vitamin B and G content of New Mexico pinto beans. The effect of different methods of cooking and the effect of aging upon the content of these vitamins. 5/21/31	M.L.Greenwood	N.C.P. 3	"	2,150

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N.Y. (Cornell)	Management analyses of households. a. Management of family finances. b. Management of the family's food. c. Management of the family's clothing and of household textiles. 8/1/28	H. Canon, M. Henry, & B. Blackmore	N.C.P.4, IV	Purnell State	1,300 1,415
"	Cost of living of farm families. 7/25/29	H. Canon	N.C.P.4, IV	Purnell State	1,200 1,390
"	Methods of household buying. 7/25/29	H. Canon & M. Fish	N.C.P.4, IV	Purnell State	2,670 415
"	Cost of living index for farm families. 7/9/25	H. Canon		Purnell State	1,220 1,540
"	Household buying with special reference to foods. 7/31/30	D. Munroe & L.M. Doman		Purnell State	3,740 240
"	Practices in infant feeding and the physical development of infants. 7/31/30	H. Monsch & R.W. Sanders		Purnell State	750 25
"	Further studies on practices in infant feeding and the physical development of infants. 7/9/31	H. Monsch & R.W. Sanders		Purnell State	1,820 20
"	The quality of fruits and vegetables, a. The comparative cooking quality of apples. b. Studies on potatoes. 8/7/31	M.C. Pfund & L. Catherwood	Pomology N.Y. State Station	Purnell State	750 1,800
N.C.	A case study of factors in the family organization conditioning the living of farm owners in Wake County. 6/18/29 Revised 7/17/30	M. deHaven Woodruff	N.C.P.4, IV	Purnell State	3,500 50
N.Dak.	Factors influencing the quality and palatability of meat. Methods of cooking meats. 8/4/25	E. Latzke & C. Leeby	N.C.P. 6 Animal Husbandry	Purnell "	1,500 1,000
	Cleaning equipment. Sub-project A.--Dustless mops. 5/5/28	C. Leeby	N.C.P.4, III	"	

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N.Dak.	The influence of cooking and canning on the content of antineuritic and anti-pellagric vitamins in meats. 11/2/29	E.Latzke, F.W.Christensen & E. Bue	N.C.P. 3 Animal Nu- trition.	Purnell	3,000
"	A study of the adequacy and cost of diets selected by college students from a college cafeteria. 11/12/29	E. Latzke		"	500
	The kinds of equipment, fixtures, and furniture needed in a farm home kitchen and their location and relative arrangement. 4/11/20	A.Bales	N.C.P.4,III	"	500
"	Canning of North Dakota varieties of vegetables and small fruits, including jellying. Subproject.--Making of jelly from native North Dakota highbush cranberry.	C.Leeby		State	?
"	Honey in cookery.	C. Leeby		State	?
Ohio	Basal metabolism of women over 35 years of age. 10/13/26	F.R.Lanman & H.McKay		Purnell State	1,500 1,000
"	Seasonal variation in growth of preschool children in Ohio. 11/4/26	F.R.Lanman & H.McKay		-----	-----
"	The influence of laundering and exposure to light upon wash silks used for outer garments. 11/11/29	F.R.Lanman & M.E.Griffith		Purnell State	500 700
"	Influence of position isomerism (structural differences) in azo dyes on their fastness to light and washings. 10/28/31	F.R.Lanman & M.E.Griffith		Purnell State	1,500 500
"	Color, consistency and flavor of Ohio potatoes which have been produced under different conditions and boiled for table use. 10/28/31	F.R.Lanman & H.McKay		Purnell State	1,000 400

State	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Source	Amount
Ohio	A study of the food habits and physical development of preschool children over a two-year period, with special reference to seasonal variations in growth. 10/28/31	F.R.Lanman & M.McKay		Purnell State	1,500 600
Okla.	1/The quantitative determination of vitamins B and G. 12/6/29	R. Reder		Purnell	1,730
"	A comparative study of the possibilities of economic contributions by farm home-makers in different agricultural districts of Oklahoma. 3/11/30	G. Fernandes & L.Conner		"	4,978
"	1/Calcium and phosphorus metabolism in pregnant women. 7/8/31	C.M.Coons		" A.A.W. Fellowship	3,422 2,000
"	1/The rate of digestion and absorption of carbohydrates in rats on a diet deficient in vitamins B and G. 10/14/31	R. Reder		Purnell	1,727
Oreg.	The farm home. (a) Requirements for efficient management of the farm household; (b) Type of architecture, selection of site, house plan arrangement and landscape; (c) relation of house to other buildings, the farmstead and the farm. 4/30/30	M.Wilson & F.A.Cuthbert	Landscape Architec ture	"	5,870
R. I.	Frequency of paid work done by the rural Rhode Island homemaker and some of its effects upon her and her home. 4/20/28	M.Whittemore & B.M.Kuschke	N.C.P.4,IV	"	2,500

1/Research conducted in Agr. Chem. Dept.

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				Source	Amount
R.I.	Influence of fertilizer treatment on the vitamin content of spinach. 5/26/28	M. Whittmore, J.B. Smith & B.M. Kuschke	N.C.P. 3 Chemistry P. State College	Purnell	500
"	Comparison of methods of refrigeration in rural homes in Rhode Island	M. Whittmore & B.M. Kuschke	N.C.P. 4, III	"	2,000
S.C.	Project not yet submitted.	A.M. Moser		"	3,600
S.Dak.	Studies of potency of vitamin C under varying conditions in spinach. 10/23/31	G.E. Wasson	N.C.P. 3	"	1,390
" "	Textile project.	A. Halgrim		"	2,180
Tenn.	The nature, origin, and function of bios. 11/9/25	M.B. MacDonald		"	2,650
"	Bitterweed flavor in milk.	M.B. MacDonald		"	2,650
"	Home utilization of the sweetpotato as a source of sirup. 7/30/30	G.A. Shuey		"	1,920
"	Sweetpotato vinegar.	G.A. Shuey		"	810
Texas	Adequacy of the diet of Texas school children. 10/20/27	J. Whitacre		"	3,761 4,100
"	The influence of Texas sunlight on the durability and color of cotton fabrics. 1/21/28	M. Grimes		"	5,207 5,100
"	Growth in height and weight of Texas school children. 6/4/28	J. Whitacre & E. Terrill		"	7,785 5,800
Utah	A study of factors promoting positive health in rural school children. 9/9/31	A.P. Brown & E. Hayball		"	3,930
"	1/ The physical curd character of milk and its relationship to the digestibility and food value of milk for infants. 5/24/29	R.L. Hill		"	850

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				Source	Amount
Utah	1/Physical curd character of evaporated milk. 4/4/30	R.L.Hill		Purnell	400
"	1/Effect of physical curd character of milk on the quality, yield, and physical texture of cheese.	R.L.Hill		"	1,250
"	Types of greens in pot plants in Utah homes. (Begun in spring of 1930).	A.P.Brown		State	100
Vt.	The standard of living of Vermont farm families. 8/9/29	M. Muse	N.C.P.4, IV	Purnell	830
"	The extent of the cash con- tribution made by the farm home maker to the income. 5/15/30	M. Muse & L.Johnson	N.C.P.4, IV	"	1,975
"	The amount of time spent and the number of steps taken in kitchen work in re- lation to the kind and ar- rangement of equipment used. 5/15/30	M. Muse & L. Johnson		"	2,550
"	The relative economy of household production and of the purchase of white bread. 8/8/31	M. Muse		"	2,500
Va.	The cooking quality and palatability of soft pork. 6/4/29	I.M.Bailey	N.C.P. 6 Animal Husbandry	"	1,800
"	Rural family living in early potato-growing farms in eastern Virginia. 12/24/29	I.M.Bailey	N.C.P.4, IV	"	1,100
"	Rural family living in Grayson County, Virginia. 6/1/31	I.M.Bailey	N.C.P.4, IV Bur. Home Econ.	"	2,100
"	2/Home laundering investi- gations. 7/22/30	P.B.Potter		"	2,400

1/Department of Human Nutrition.

2/Department of Agricultural Engineering.

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				Source	Amount
Va.	1/An investigation of the reliability of oven regulators. 7/22/30	P.B.Potter		Purnell	600
Wash.	Standards for cooking vegetables in the electric oven. 10/24/28 (Completed)	V.W.Swartz	N.C.P.4, III Agr. Eng.	"	1,680
"	Efficiency of home laundry plant. 10/24/28 (Completed)	E.H.Roberts	N.C.P.4, III	---	---
"	Human energy cost of various household tasks. 7/8/30	V.W.Swartz		Purnell	1,570
"	The vitamin C content of Winesap apples as influenced by certain conditions of fertilization. 10/16/30	M.T.Potter	N.C.P. 3 Horticulture Chemistry	"	400
"	Bactericidal effectiveness of home laundering methods for rayon and sild. 4/24/31	E. Roberts		"	1,450
"	The thermal efficiency of utensils when used with the electric range. 11/2/31	F.Harrison, E.H.Roberts & H.Garver	Agr.Eng.	"	1,900
"	Vitamin A content of yellow tissue and white tissue apples.	M.T.Potter		Farm Electri- city State	?
"	Vitamin A content of different varieties of sweet and sour cherries.	M.T.Potter		"	?
W. Va.	A study of the relation of lipoids, particularly cholesterol, to the incidence of respiratory and middle-ear infections occurring on vitamin A-deficient diets. 1/28/29	H.C.Cameron	Agr.Chem.	Purnell	5,330

1/Department of Agricultural Engineering.

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				Source	Amount
Wis.	The metabolism of protein, particularly as influenced by pregnancy and lactation. 11/27/29	H.Parsons & E.Kelly		Purnell State	3,565 2,100
"	A study of cycles of fam- ily development and experi- ences in relation to stand- ards of living and ability to provide. 8/4/31	E.L.Kirkpatrick & M.L.Cowles	Agr.Econ. Rural Soc. U.S.Bur. Agr.Econ.	Purnell State	1,250 500
"	Variations in the "Acid Residue" of different vari- eties of prunes and plums.	D. Turner		"	?
"	The vitamin A content of white and yellow corn.	H.Parsons		"	?
Wyo.	Baking qualities and me- thods of baking Wyoming flour. 1/25/25	E.J.McKittrick & E.J.Thiessen		Purnell	657
"	A study of the time re- quired for cooking winter vegetables at high alti- tudes. 1/6/30	E.J.McKittrick & E.J.Thiessen		"	557
"	Comparison of the culinary properties of dry land and irrigated potatoes. 2/26/30	E.J.McKittrick & E.J.Thiessen		" State	1,705 190
"	The effect of storage upon The vitamin C content of Wyoming dry land and irriga- ted potatoes (Bliss Tri- umph). 3/25/30	E.J.McKittrick & E.J.Thiessen	N.C.P. 3	Purnell State	1,705 85

